

FIG. 1

	AlP	GaP	InP
a (Å)	5.4672	5.4505	5.8697
E_g (eV)	2.45	2.26	1.35
E_o (eV)	3.56	2.78	1.35
n	3	3.02	3.1

FIG. 2

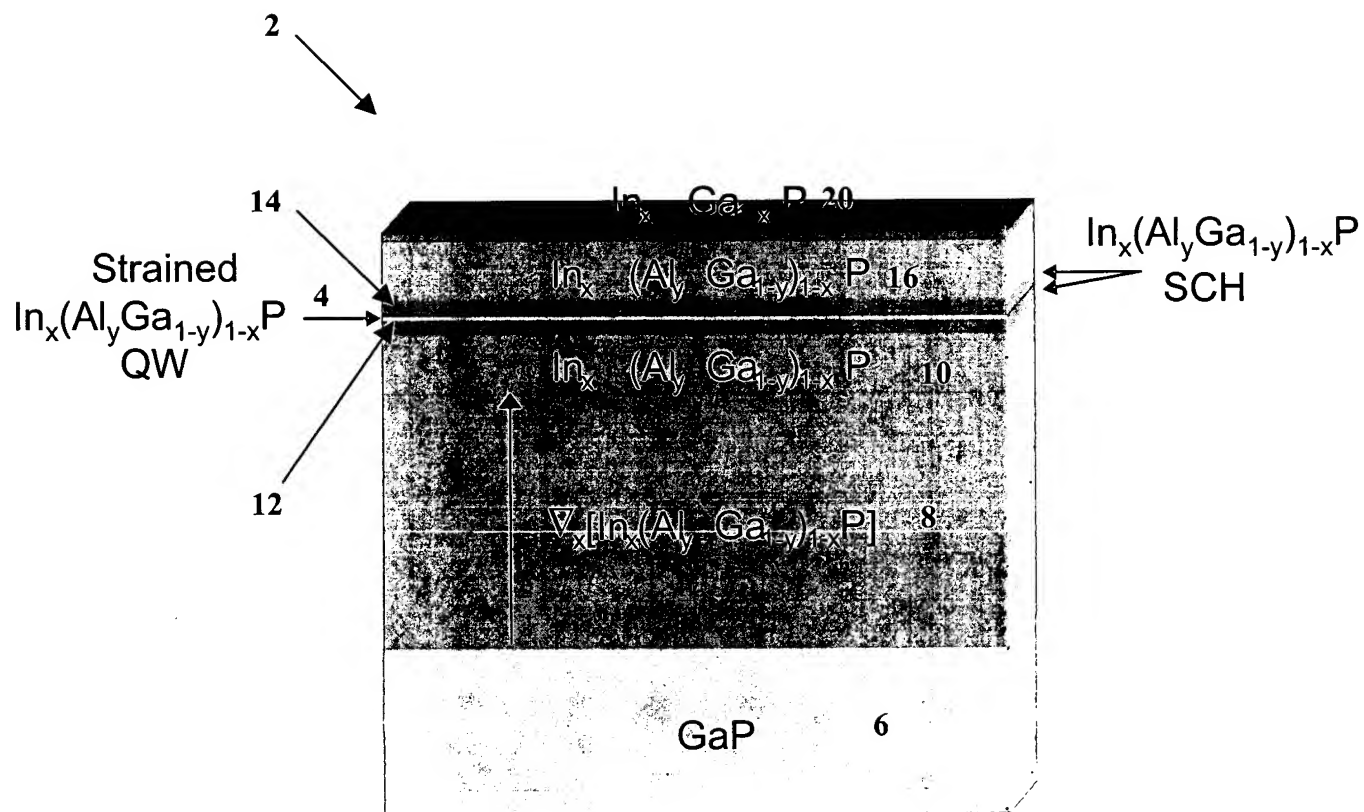


FIG. 4

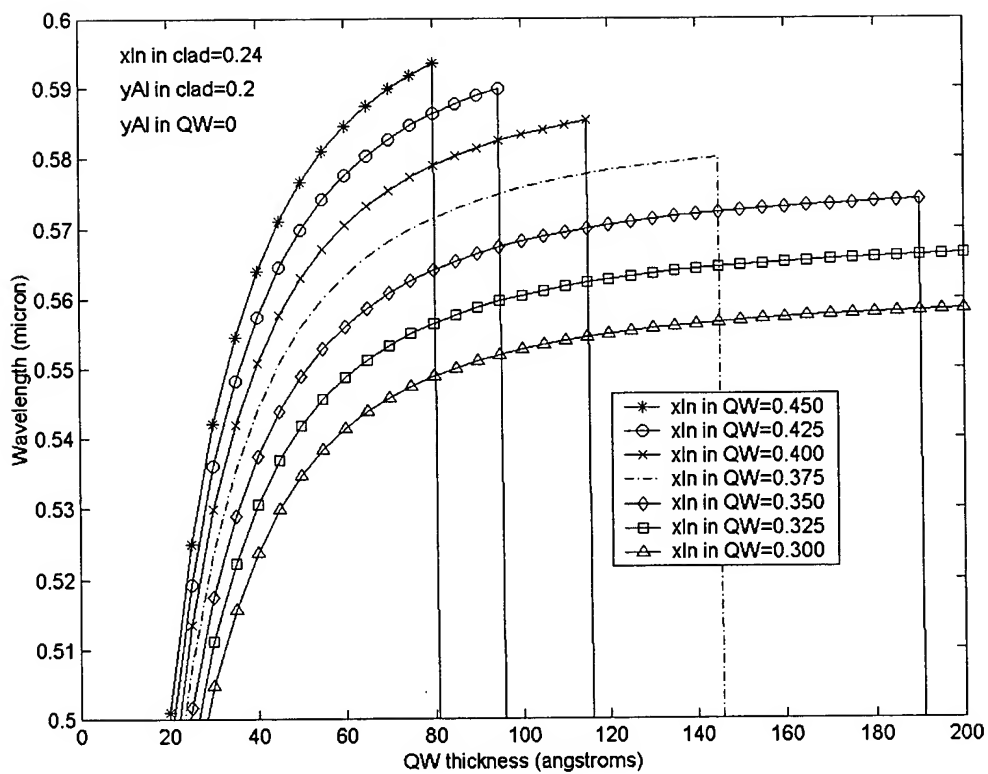


FIG. 5

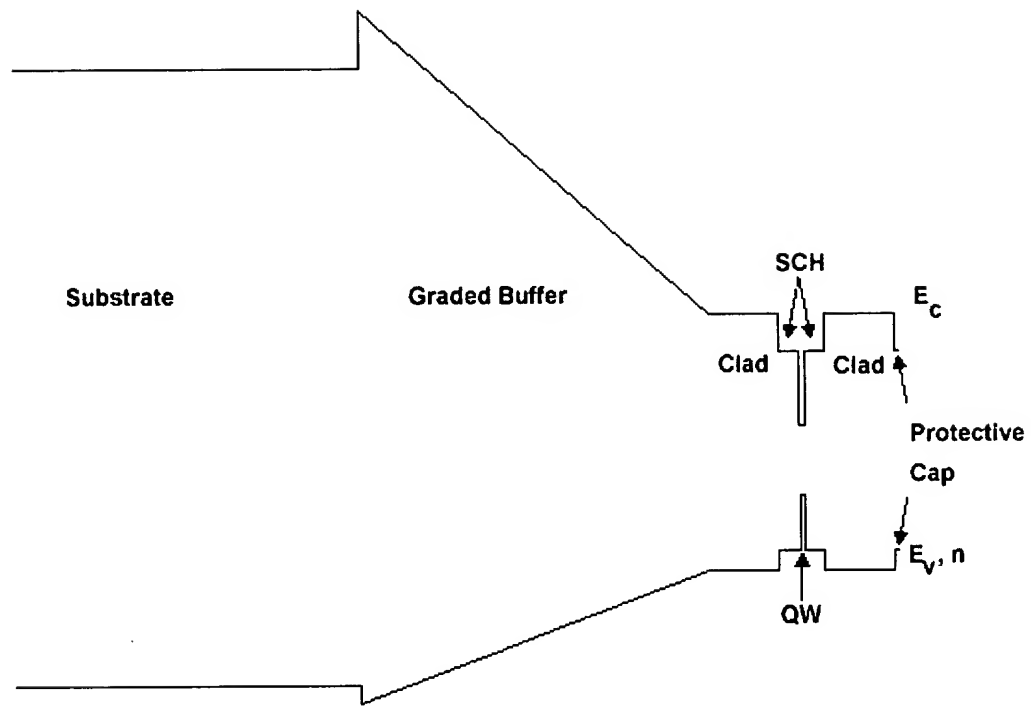


FIG. 6

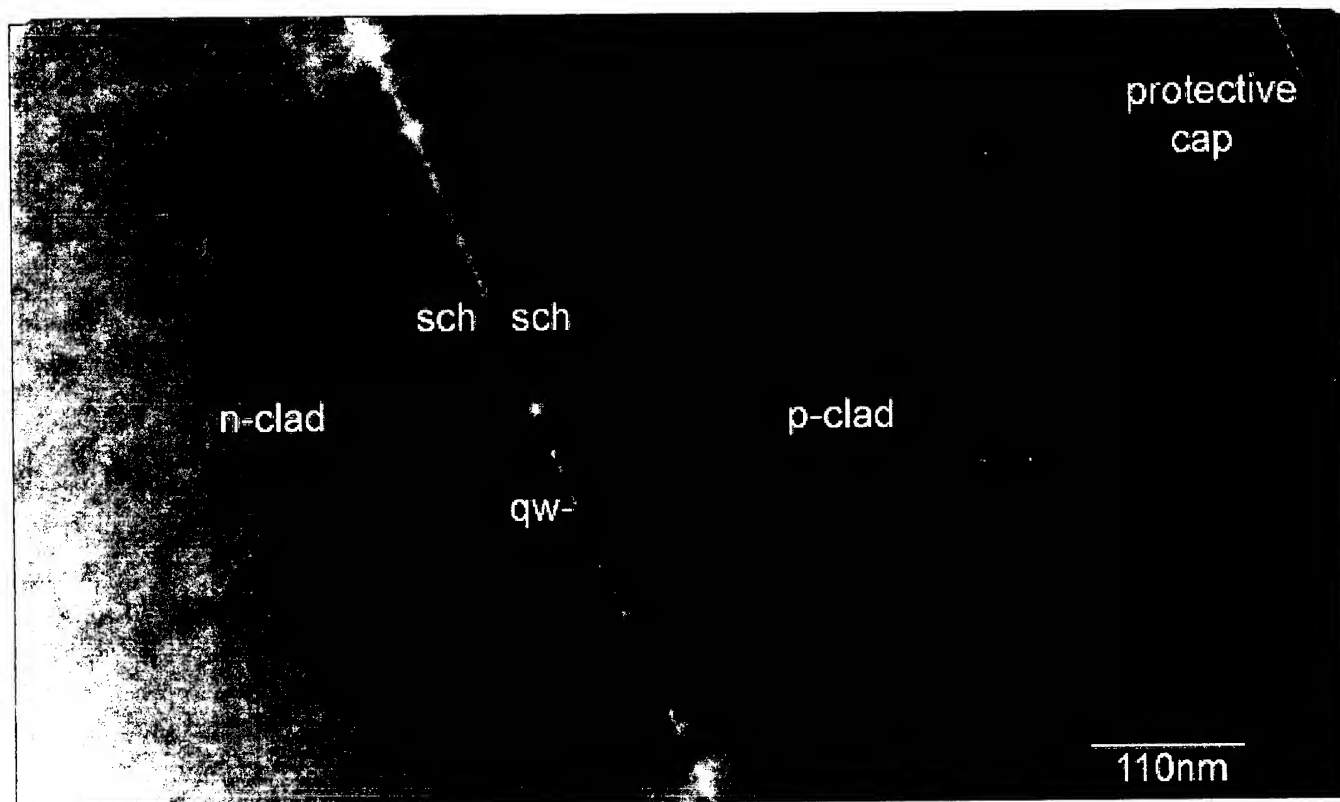


FIG. 7

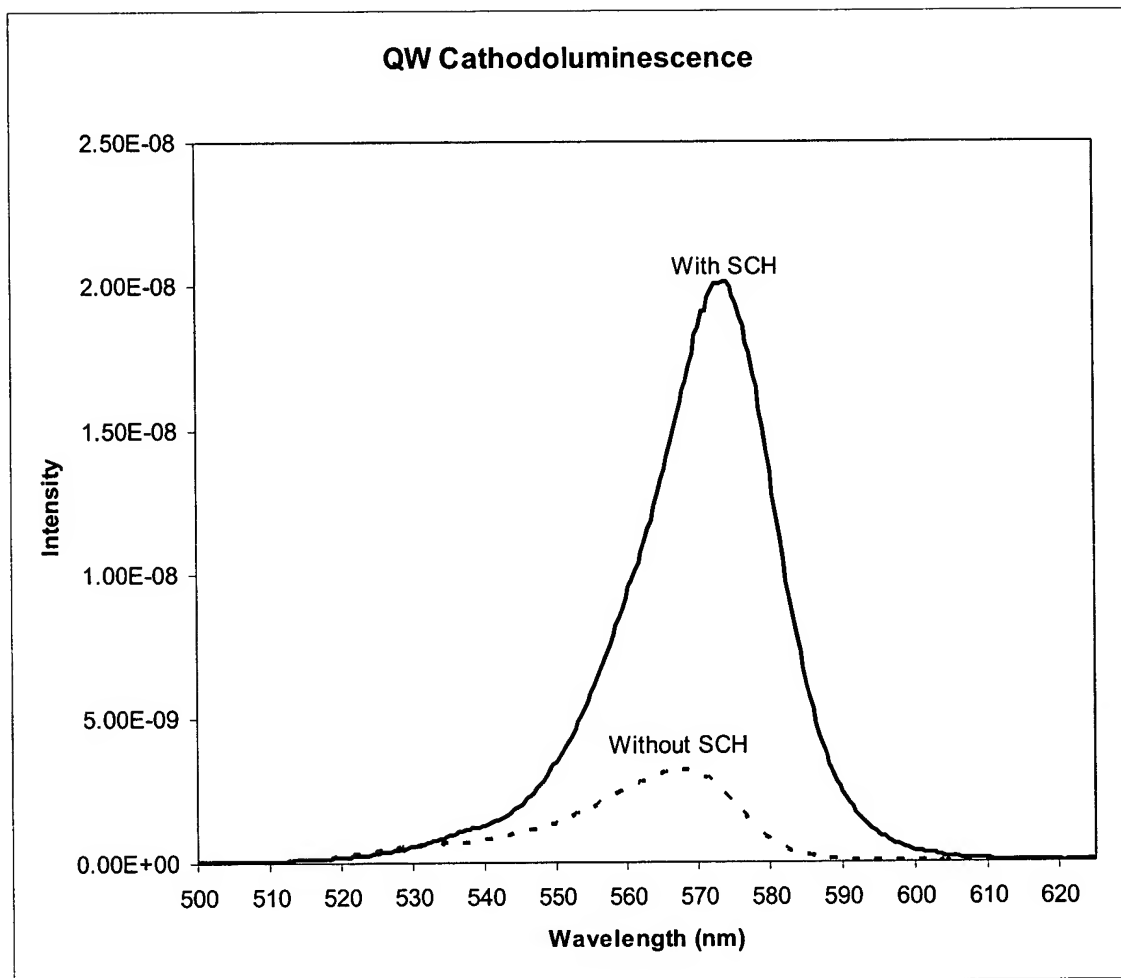


FIG. 8

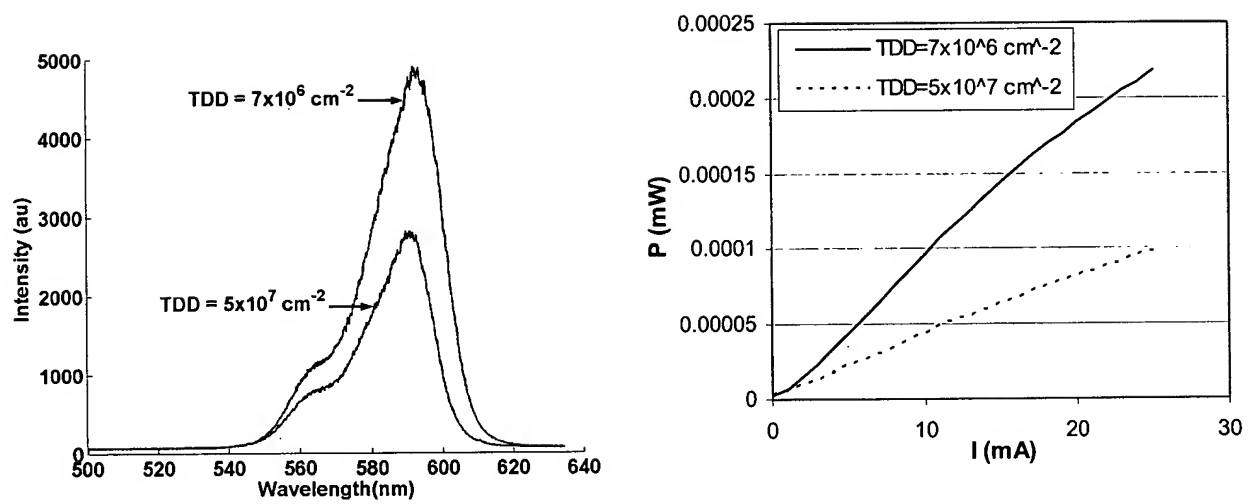
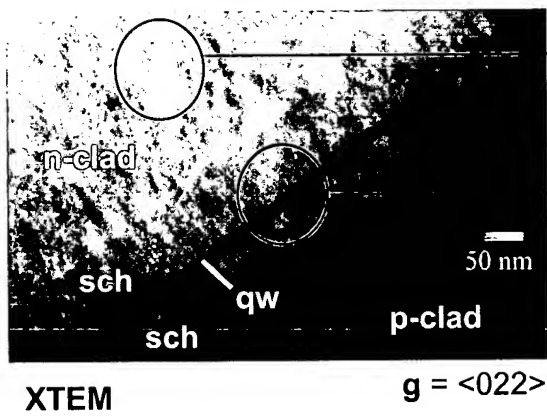


FIG. 9



$\langle 110 \rangle$ pole figure

$\langle 110 \rangle$ pole figure

FIG. 10

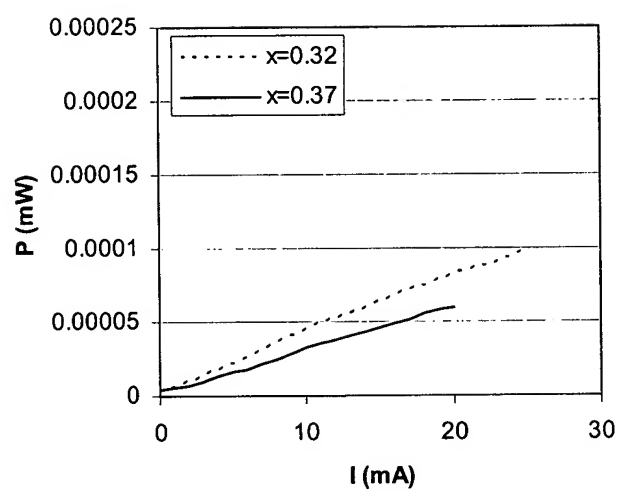
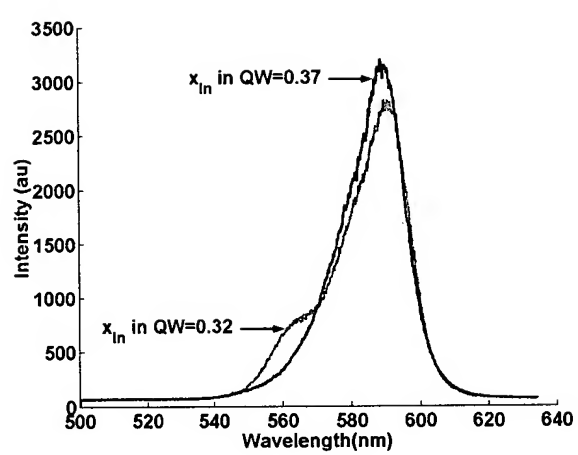


FIG. 11

x_{qw}	T_{qw} (°C)	ρ_{TDD} (cm ⁻²)	Peak λ (nm)	Secondary λ (nm)	Power per facet @ 20mA (μW)
0.32	650	7×10^6	590	560	0.18
0.32	650	5×10^7	590	560	0.08
0.37	650	5×10^7	588	—	0.06

FIG. 12

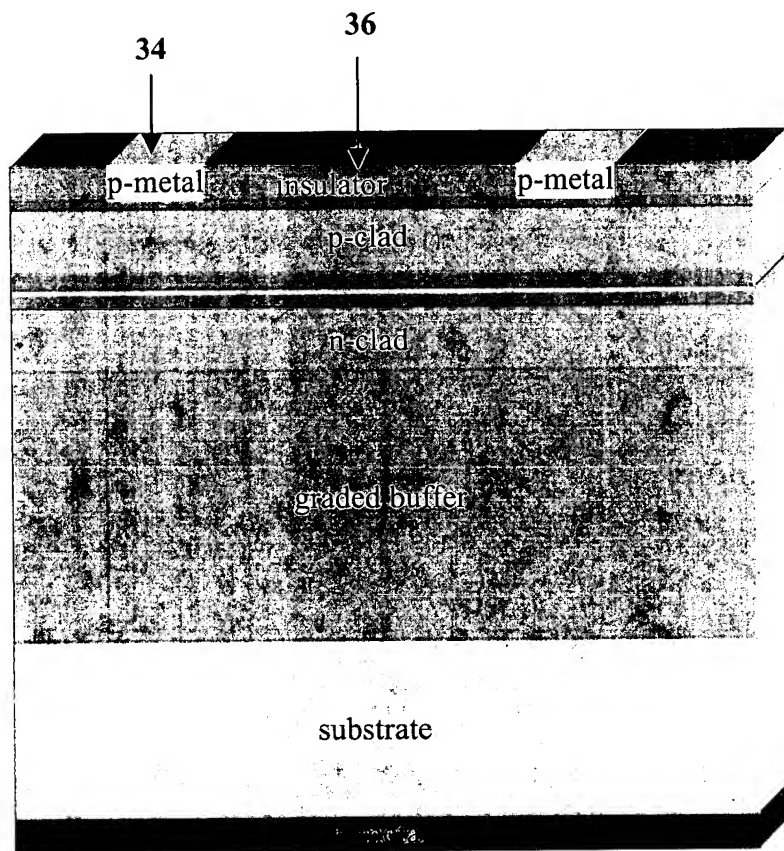


FIG. 13

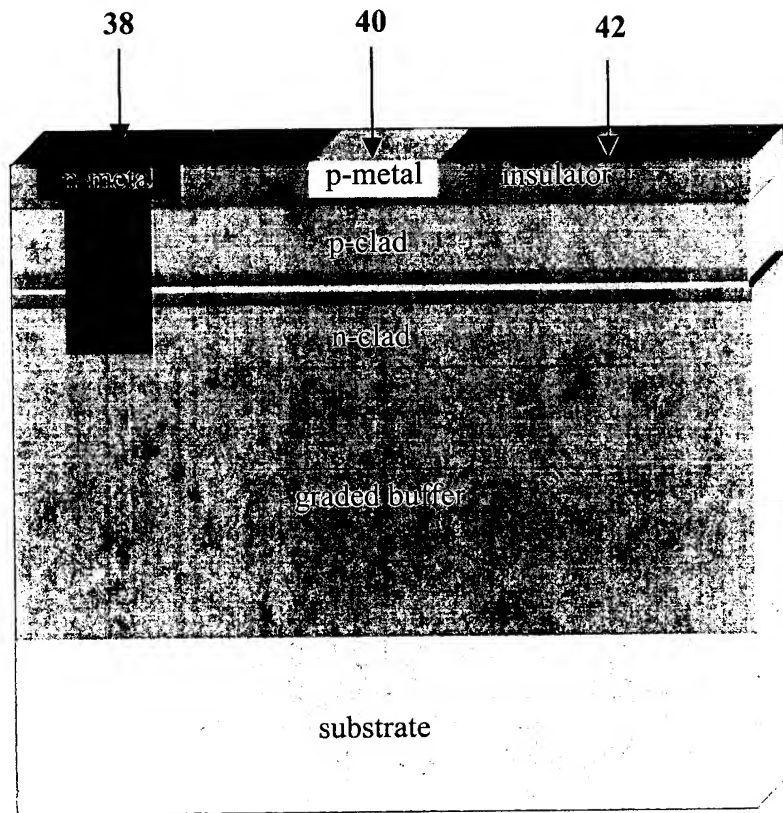


FIG. 14